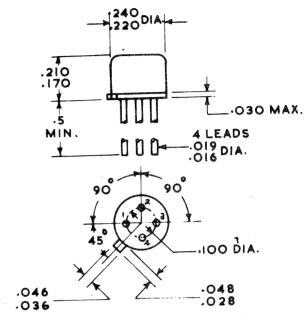


The AS200 and AS201 are n-p-n silicon planar epitaxial transistors for general use in H.F. and V.H.F. applications, having high f_T (900MHz) and typical R_{bb} , $C_{b'c}$ products of 8ps These units are in the TO-104 package.

DIMENSIONAL OUTLINE



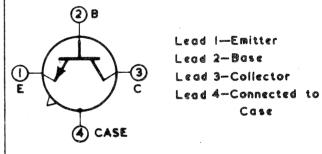
Dimensions in Inches

ABSOLUTE MAXIMUM RATINGS

Collector-base voltage = 45 volts Collector-emitter voltage = 45 volts (Base-emitter resistance = 100 $K\Omega$)

Emitter-base voltage = 5 volts
Emitter current = 50mA

TERMINAL DIAGRAM



THERMAL RATINGS

Dissipation in an ambient temperature up to $25\,^{\circ}\text{C}$ ---- $180\,\text{mW}$ max. Derate linearly to zero at $175\,^{\circ}\text{C}$.

During soldering lead temperature must not exceed 255 $^{\rm o}{\rm C}$ for 10 secs. max. with 1/16" of can.

Storage temperature -65° C to 175° C

CHARACTERISTICS AT 25°C

AS200

AS201

| | · | | | | Security of the Control of the Contr |
|---|--|-------|------|-------|--|
| PARAMETER | CONDITIONS | MIN. | TYP. | MAX. | UNITS |
| V _{BE} | I _{BE} = 50mA | | | 1.2 | V |
| ГСВО | V _{CB} = 1V | | | 20 | n A |
| I _{CBO} | V _{CB} = 45V | | : | 1 | μА |
| V _{EBF} | V _{CB} = 45V | | | 1 | V |
| V _{CER} | $I_C^{-} = 100 \mu A$, $R_{BE} = 100 KΩ$ | | | 45 | V |
| h _{fe} | $V_{CE} = 6V$, $I_{E} = 2mA$, $f = 100MHz$ | 7 | | 14 | |
| C _{b'c} | $V_{CB} = 8V$, $I_{E} = 0$ | | .55 | .75 | pF |
| | | | | | |
| | AS200 | | | | |
| IB | $V_{CE} = 6V$, $I_{E} = 1mA$ | 3.6 | | 13.8 | μА |
| R _{bb} , C _b ,c | $V_{CE} = 6V$, $I_{E} = 2mA$ $f = 31.9$ | 4 | | 15 | pS |
| | | | | | |
| | AS201 | | | | |
| I _B | $V_{CE} = 6V$, $I_{E} = 1mA$ | 6 | | 37 | μА |
| R _{bb} , C _b , | $V_{CE} = 6V$, $I_{E} = 2mA$, $f = \frac{31.9}{MHz}$ | 4 | | 10 | pS |
| Annice in the control of the co | | | | | |
| | | | | | |
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| | | | | | |
| | With the Compliments of | | | | |
| | AMALGAMATED WIRELESS | VALVE | CO | PTY_L | TD. |
| | VICTORIA RD., RYDALMERS | P | ONE: | 638-0 | 0411 |
| | | - | - | - | |
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